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☐ 1. Document ID: DE 19918856 A1

L1: Entry 1 of 2

File: EPAB

Nov 11, 1999 ...

PUB-NO: DE019918856A1

DOCUMENT-IDENTIFIER: DE 19918856 A1

TITLE: Separator for battery with non-aqueous electrolyte, especially lithium secondary battery

PUBN-DATE: November 11, 1999

## INVENTOR-INFORMATION:

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APPL-NO: DE19918856

APPL-DATE: April 26, 1999

PRIORITY-DATA: JP11683898A (April 27, 1998)

INT-CL (IPC): H01 M 2/14EUR-CL (EPC): H01M002/16

## ABSTRACT:

CHG DATE=20000301 STATUS=O>Separator for batteries with non-aqueous electrolyte consists of a heat-resistant aromatic polymer (I) containing nitrogen and a ceramic powder (II).

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Draw	Desc	Image									

☐ 2. Document ID: US 6447958 B1 DE 19918856 A1 CA 2269892 A1 JP 2000030686 A KR 99083447 A JP 3175730 B2 TW 460505 A

L1: Entry 2 of 2

File: DWPI

Sep 10, 2002

DERWENT-ACC-NO: 2000-024956

DERWENT-WEEK: 200263

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TITLE: Separator for battery with non-aqueous electrolyte, especially lithium secondary battery

ADVANTAGE - The separators normally used in lithium secondary batteries are thin porous films. However, excellent heat resistance and a higher short circuit temperature are desirable for batteries with non-aqueous electrolytes. Aromatic polyamides and polyimides have excellent heat resistance, ion permeability and battery properties. Thermoplastic resins can be used to ensure safety by blocking the pores if a short circuit occurs but separators based on nonwoven polypropylene fabric with polyethylene resin powder for blocking have insufficient heat resistance and too low short circuit temperature. The present separator has excellent ion permeability, battery properties and safety and the heat resistance and short circuit temperature are high.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: SEPARATE BATTERY NON AQUEOUS ELECTROLYTIC LITHIUM SECONDARY BATTERY

DERWENT-CLASS: A26 A85 L03 X16

CPI-CODES: A05-F05; A05-J01B; A12-E06B; L03-E01A;

EPI-CODES: X16-B01F1; X16-F02;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1544U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; E21 E00 D64 C1 7A ; R00793 G1763 G1672 G1649 D01 D19 D18 D31 D50 D76 D86 F09 F07 ; P0737\*R P0635 H0293 F70 D01 D18 ; P0759 P0737 P0635 H0293 F70 D01 D19 D18 D32 D50 D93 E21 E00 ; H0022 H0011 ; S9999 S1627 S1605 Polymer Index [1.2] 018 ; ND01 ; K9574 K9483 ; N9999 N7147 N7034 N7023 ; N9999 N6780\*R N6655 ; N9999 N6860 N6655 ; B9999 B4682 B4568 ; B9999 B4875 B4853 B4740 ; Q9999 Q7341 Q7330 ; K9905 ; K9949 ; Q9999 Q7114\*R ; B9999 B5243\*R B4740 ; N9999 N6882 N6655 Polymer Index [1.3] 018 ; B9999 B3678 B3554 ; B9999 B4331 B4240 ; B9999 B4444 B4240 ; K9518 K9483 ; K9563 K9483 ; K9530 K9483 Polymer Index [1.4] 018 ; R05268 D01 D11 D10 D23 D22 D31 D41 D50 D75 D85 F71 ; A999 A475 Polymer Index [1.5] 018 ; G3510 D00 F20 Gm N\* 5A C\* 4A ; R01544 D00 F20 Al 3A O\* 6A ; R01694 D00 F20 O\* 6A Si 4A ; R01966 D00 F20 Ti 4B Tr O\* 6A ; R01521 D00 F20 Zr 4B Tr O\* 6A ; S9999 S1514 S1456 ; A999 A748 Polymer Index [2.1] 018 ; D18\*R ; P1081\*R F72 D01 ; S9999 S1627 S1605 Polymer Index [2.2] 018 ; ND01 ; K9574 K9483 ; N9999 N7147 N7034 N7023 ; N9999 N6780\*R N6655 ; N9999 N6860 N6655 ; B9999 B4682 B4568 ; B9999 B4875 B4853 B4740 ; Q9999 Q7341 Q7330 ; K9905 ; K9949 ; Q9999 Q7114\*R ; B9999 B5243\*R B4740 ; N9999 N6882 N6655 Polymer Index [2.3] 018 ; B9999 B5630 B3510 B3372 ; K9518 K9483 ; K9530 K9483 ; K9563 K9483 Polymer Index [2.4] 018 ; G3510 D00 F20 Gm N\* 5A C\* 4A ; R01544 D00 F20 Al 3A O\* 6A ; R01694 D00 F20 O\* 6A Si 4A ; R01966 D00 F20 Ti 4B Tr O\* 6A ; R01521 D00 F20 Zr 4B Tr O\* 6A ; S9999 S1514 S1456 ; A999 A748 Polymer Index [3.1] 018 ; H0317 ; S9999 S1627 S1605 Polymer Index [3.2] 018 ; ND01 ; K9574 K9483 ; N9999 N7147 N7034 N7023 ; N9999 N6780\*R N6655 ; N9999 N6860 N6655 ; B9999 B4682 B4568 ; B9999 B4875 B4853 B4740 ; Q9999 Q7341 Q7330 ; K9905 ; K9949 ; Q9999 Q7114\*R ; B9999 B5243\*R B4740 ; N9999 N6882 N6655 Polymer Index [3.3] 018 ; B9999 B5607 B5572 Polymer Index [3.4] 018 ; K9518 K9483 ; K9530 K9483 ; K9563 K9483 Polymer Index [3.5] 018 ; G3510 D00 F20 Gm N\* 5A C\* 4A ; R01544 D00 F20 Al 3A O\* 6A ; R01694 D00 F20 O\* 6A Si 4A ; R01966 D00 F20 Ti 4B Tr O\* 6A ; R01521 D00 F20 Zr 4B Tr O\* 6A ; S9999 S1514 S1456 ; A999 A748 Polymer Index [4.1] 018 ; H0317 ; S9999 S1070\*R Polymer Index [4.2] 018 ; ND01 ; K9574 K9483 ; N9999 N7147 N7034 N7023 ; N9999 N6780\*R N6655 ; N9999 N6860 N6655 ; B9999 B4682 B4568 ; B9999 B4875 B4853 B4740 ; Q9999 Q7341 Q7330 ; K9905 ; K9949 ; Q9999 Q7114\*R ; B9999 B5243\*R B4740 ; N9999 N6882 N6655 Polymer Index [4.3] 018 ; B9999 B5436 B5414 B5403 B5276 ; B9999 B5447 B5414 B5403 B5276

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-006425

Non-CPI Secondary Accession Numbers: N2000-018642

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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